



ATS | **AUTOMOTIVE**
Test Solutions

BULLSEYE[®]

Leak Detector Patent Pending



Air Ride Suspension

BULLSEYE Air Ride Suspension Quick Start Guide



Step 1. Remove safety glasses from kit and put them on in order to protect your eyes.



Step 2. Remove electronic leak detector from kit and turn on unit, allow unit to warm up the CO2 sensor tip. When unit is ready the red light will shut off and the green ready light will turn on, this will take about 90 seconds. For best results the leak detector CO2 sensor should be allowed to fully warm up for about 5 minutes.

BULLSEYE Air Ride Suspension Quick Start Guide



Note: Never directly hit or drop the leak detector on the CO2 sensor tip, this will cause the sensor to become damaged! Do not get Leak Seeker Solution directly on the CO2 sensor tip!



Step 3. In order to charge the air ride suspension system a large CO2 supply will be necessary. A 24oz paint ball canister will work well. Install the high PSI regulator directly on the paint ball canister.

Note: These paint ball canister are available at most Walmarts and sporting good stores nationwide. All Sports Authority's and paint ball stores in your area can fill these style CO2 canisters.

BULLSEYE Air Ride Suspension Quick Start Guide



Step 4. You can also use an industrial Carbon Dioxide (CO2) gas bottle (Airgas part # CD FG5) or equivalent. When using an industrial style bottle you will use the special blue adaptor to connect the ATS high pressure regulator to this style bottle. Adaptor is included in kit.

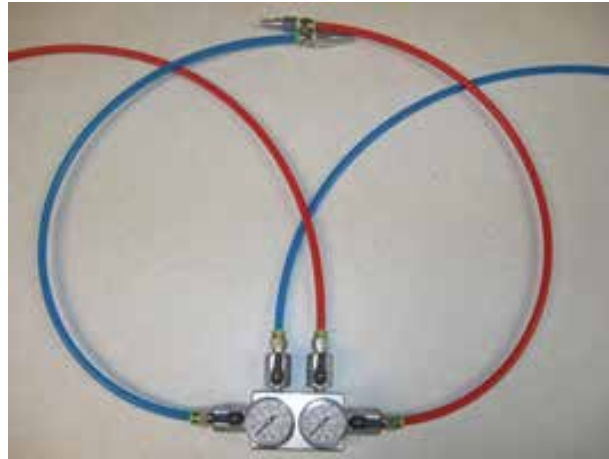


Note: *The vehicle will need to have some type of lifting device installed under the chassis in order to support the air ride suspension.*



Step 5. Locate the air compressor for the air suspension system. Depending on the vehicle manufacture this is usually under the left front of the vehicle, or in the rear trunk.

BULLSEYE Air Ride Suspension Quick Start Guide

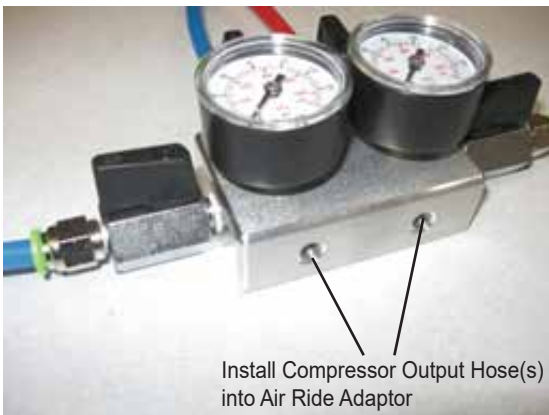


Step 6. The ATS Air Ride adapter will be connected to the vehicles air compressor.

Note: *The Air Ride adapter is divided into two halves, the red side and the blue side.*



Step 7. Locate the air compressor output hose(s) and unscrew the pressure fitting from the compressor. Now take the hose from the ATS air ride adapter and install it into the compressor output.



Step 8. Install the hose that you removed from the vehicles air compressor into the ATS Air Ride Adapter, this will be connected to the same side (colored hose) as the hose that was connected to the compressor

BULLSEYE Air Ride Suspension Quick Start Guide



Step 9. Connect the high pressure regulator to the Air Ride Adapter. Adjust the high pressure regulator to greater than 80 PSI.

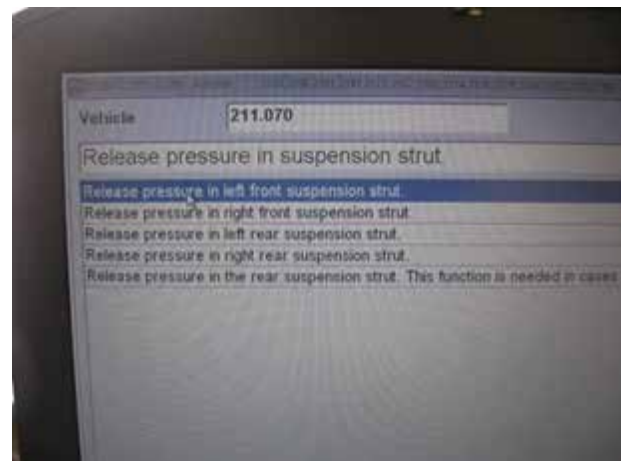
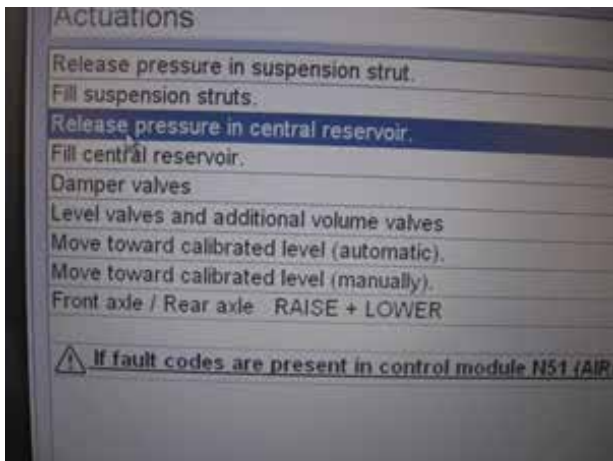


Step 10. Close the valve from the compressor to the Air Ride Adapter so the compressor is blocked from the air suspension system and open the valve from the CO2 bottle so that CO2 can flow into the air suspension system.



Step 11. If the air suspension system has fallen and the vehicle chassis is all the way down, turn the key on and the air suspension will allow the air bag to be filled with CO2.

BULLSEYE Air Ride Suspension Quick Start Guide



Step 12. You will need a Factory style scantool in order to drain the air from the system and then refill the air suspension system with CO2



Step 13. Once the vehicles air suspension is filled thus raising the vehicle back to it ride height, the system can now be tested for leakage.

BULLSEYE Air Ride Suspension Quick Start Guide



Step 14. Take the electronic leak detector and go around the system to identify the leak site area. While moving the CO2 probe tip around the system it is best to keep the CO2 sensor face perpendicular to the surface being tested.

Note: *If tip is bumped against the surface being tested the detector may momentarily go off, this false alert will go off right away. If the leak detector senses CO2 gas the alert will stay on for 10 to 40 seconds.*



Step 15. When CO2 gas is detected the LED display bar is activated along with the audio alert (loud beeping noise). Once the detector has sensed CO2 the alerts will continue for about 10 to 40 seconds; **Note:** *Remove sensor from leak site area and let the unit stop beeping on its own.* Once the detector has stopped beeping you can now retest the leak site area with the CO2 detector.

BULLSEYE Air Ride Suspension Quick Start Guide



Step 16. Once the leak site area has been identified take the Bullseye leak seeker solution from the kit and shake the can well. Note: the consistency of the foam can be controlled by how much the can has been shaken; less shaken will result in a liquid consistency, and more shaken will result in a foam consistency.



Step 17. Install the red discharge tube in the nozzle and aim at the leak site area, push down on the nozzle to discharge the Leak Seeker Foam. Coat a large surface area around the suspected leak site.

BULLSEYE Air Ride Suspension Quick Start Guide



Step 18. The Bullseye Leak Seeker Solution will spray on pinkish red and turn yellow at the leak site. On very small leak sites no bubbles will form. This is due to a very low gas volume escaping from the leak site.



Step 19. On large leak sites the Bullseye Leak Seeker Solution will bubble and change color from pinkish red to yellow indicating a larger leak site.

Note: *If all the foam changes from a pinkish red color to a yellow color right away wash the area with the Bullseye distilled water wash thoroughly. Then reapply the Bullseye leak seeker foam solution.*

BULLSEYE Air Ride Suspension Quick Start Guide

Re-Filling The BULLSEYE Distilled Water Wash Aerosol Bottle



1. Depress Schrader valve and release any air pressure remaining in bottle.
2. Unscrew top counter clockwise from bottle.
3. Fill bottle with 8 oz. of distilled water maximum.
4. Make sure container top is securely tightened.
5. Pressurize container with 70-80 psi air pressure. **WARNING!** Do not exceed 90 PSI air pressure.
6. See warning label on back of distilled water wash can for additional instructions.

Note: Do not charge bottle with CO2 gas.

Copyright © 2016
Automotive Test Solutions, Inc.
All Rights Reserved



ATS | **AUTOMOTIVE**
Test Solutions

BULLSEYE®

Leak Detector Patent Pending